ABSTRACT

A control device (30) calculates a voltage command value of a voltage step-up converter (12) based on a torque command value (TR1 (or TR2)) and a motor revolution number (MRN1 (or MRN2)) and calculates an on-duty (D_ON_1) of an NPN transistor (Q1) based on the calculated voltage command value and a DC voltage (Vb) from a voltage sensor (10). When the on-duty (D_ON_1) is influenced by a dead time of NPN transistors (Q1, Q2), control device (30) fixes the on-duty (D_ON_1) at 1.0 to control the NPN transistors (Q1, Q2) in such a manner that the voltage is increased or decreased.